SUMMARY OF FACULTY RESEARCH INTERESTS

PHARMACEUTICAL SOLIDS FORMULATION
Stephen R. Byrn (Charles B. Jordan Professor) - solid state formulation and stability of small molecules
Kirth Chadwick (Assistant Professor) - heterogeneous nucleation, control of polymorphism
Tonglei Li (Allen Chao Chair and Professor) - intermolecular interaction and crystal packing, nucleation and phase transition, computation and visualization
Lynne S. Taylor (Professor) - amorphous solids, role of moisture in pharmaceutical solids, development of analytical methods to characterize solids
Elizabeth M. Topp (Jane O. Kirk Chair and Dept. Head) - solid state formulation and stability of biologics, control of protein aggregation

PHARMACEUTICAL SOLIDS MANUFACTURING
Stephen R. Byrn (Charles B. Jordan Professor) - regulatory science, Sustainable Medicines in Africa
James D. Lister (Professor, joint with Chemical Engineering) - process modeling, granulation, crystallization
Rodolfo Pinal (Associate Professor) - layer-by-layer assembly of solid dosage forms

PHARMACEUTICAL SOLIDS DELIVERY & BIOPHARMACEUTICS
Raymond E. Galinsky (Professor) - mechanisms of drug interactions; influence of altered physiology on pharmacokinetics and pharmacodynamics
Gregory T. Knipp (Associate Professor) - oral drug delivery, peptide transporters in the GI tract, porcine model for oral formulations, pediatric drug delivery
Tonglei Li (Allen Chao Chair and Professor) - development and delivery of nanocrystal-based therapeutic, and imaging systems
Kinam Park (Professor, Shoemaker Distinguished Professor of Biomedical Engineering) - controlled release, nano/micro particles, polymer micelles, fast dissolving tablets, hydrogels
Yoon Yee (Associate Professor) - particle engineering, nanoparticles, drug delivery in cancer, drug delivery to lung

BACKGROUND REQUIREMENTS

● Subject backgrounds suitable for graduate study in pharmaceutics are pharmacy, pharmaceutical sciences, life sciences, physical sciences, and engineering.
● Requirements for entry into the PhD program are a BS or MS in an appropriate discipline.

FOR MORE INFORMATION

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